

REMARKS

Applicant respectfully requests reconsideration and allowance of the subject application. Claims 2, 4, 10, 12-13, 18, 25, and 27 have been canceled. Claims 1, 3, 5-9, 11, 14-17, 19-24, 26, and 28-47 are pending, of which claims
5 1, 8, 22, and 28 have been amended. The amendments to claims 1, 8, 22, and 28 are simply to provide clarification and/or to correct informalities noted by the Applicant, and are not to overcome prior art or any other objections.

Applicant appreciates the Examiner's time for our teleconference on
10 June 9, 2004 to discuss the pending claims and the Cho reference. As discussed, Applicant agrees with the Examiner that Cho teaches power supplied to a display is turned off before power supplied to a computer system is turned off (*Supplemental Advisory Action* dated May 25, 2005). Cho describes that the display screen power is shutdown just before the computer
15 system power is cut off to prevent flicker and damaging the display screen with an abrupt electrical surge (*Cho* col.3, line 35 to col.4, line 24).

However, Cho does not teach that when an input is received to shutdown a computing device, a graphical display of the computing device is turned off first, an operating system running on the computing device is shut down second
20 (i.e., after the graphical display is turned off), and third, power to operate the computing device is turned off (*see* new claims 36-37, for example). Accordingly, Applicant respectfully requests examination of new claims 31-47 that expressly recite a graphical display being turned off first, an operating system being shutdown second, and computing device power being shutdown
25 third, as suggested by the Examiner.

New Claims

New claims 31-47 are presented for examination. Applicant believes that claims 31-47 are allowable over the Cho reference, and that claims 31-47 are in condition for allowance. As described above, Cho does not teach that a graphical display of a computing device is turned off first before an operating system running on the computing device is shut down, as recited in independent claims 31, 36, 40, and 44.

35 U.S.C. §102 Claim Rejections

Claims 1-2, 5-10, 13-18, 20-22, 24, 26-28, and 30 are rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,081,902 to Cho (hereinafter, "Cho") (*Office Action* p.2). Claims 2, 10, 13, 18, and 27 are canceled. Applicant respectfully traverses the rejection.

Cho describes that when a power switch on a computer is pressed by a user, power within the computer is cut off such that the display screen power is shutdown just before the computer system power is cut off to prevent flicker and damaging the display screen with an abrupt electrical surge (*Cho* col.3, line 35 to col.4, line 24). Cho simply sends an interrupt signal (S200, Fig. 4) to output a display power shutdown signal (S220, Fig. 5) to shutdown various signals of the display (S222-S227, Fig. 6). When the display is shutdown, a system power off signal is output (S400, Fig. 4) to cut off the computer power.

Contrary to Cho, Applicant describes that when a shutdown control of a computing device is selected, a process is initiated to shutdown the operating system and any other processes running on the computing device (*Specification* p.5, lines 22-24). Additionally, Applicant claims that power to operate a graphical display is turned off before shutting down an operating system running on the computing device (*see* claim 1, for example). Cho does not

teach that a graphical display of a computing device is turned off first before an operating system running on the computing device is shut down.

The Office refers to a “system management interrupt signal 2 to initiate a power shutdown process”, described in Cho at col.4, lines 27-28 (*Office Action* p.4). Cho continues to describe that a CPU receives the interrupt signal 2 and outputs a display power shutdown signal 4 (*Cho* col.4, lines 32-35). Again, there is no mention in Cho of an operating system, and no mention of turning off a graphical display to conserve power before shutting down the operating system.

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Claim 1 recites a portable computing device comprising “a selectable control configured to initiate a shutdown of an operating system running on the portable computing device”, and “a component configured to turn off the graphical display and conserve the power to operate the graphical display when the selectable control is selected and before the shutdown of the operating system running on the portable computing device is initiated.”

As described above, Cho does not show or disclose that a graphical display is turned off before the operating system is shutdown, as recited in claim 1. Further, Cho makes no mention of conserving power to operate the graphical display, as recited in claim 1. Cho only describes shutting down the display screen power just before the computer system power is cut off.

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Accordingly, claim 1 along with dependent claims 5-7 are allowable over Cho, and Applicant respectfully requests that the §102 rejection be withdrawn.

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Claim 8 recites an electronic device comprising “a selectable control configured to initiate a shutdown of an operating system running on the

electronic device", and "a component configured to turn off the graphical display when the selectable control is selected and before the shutdown of the operating system running on the electronic device is initiated."

As described above in the response to the rejection of claim 1, Cho does not show or disclose that a graphical display is turned off before the operating system is shutdown, as recited in claim 8. Accordingly, claim 8 along with dependent claims 9 and 14-15 are allowable over Cho, and Applicant respectfully requests that the §102 rejection be withdrawn.

10 Claim 16 recites a display device comprising "a graphical display" and "a display component configured to turn off the graphical display when an operating system shutdown control is selected and before a process to shutdown the operating system is initiated."

As described above in the response to the rejection of claim 1, Cho does not show or disclose that a graphical display is turned off before a process to shutdown the operating system is initiated, as recited in claim 16. Accordingly, claim 16 along with dependent claims 17 and 20-21 are allowable over Cho, and Applicant respectfully requests that the §102 rejection be withdrawn.

20 Claim 22 recites a method comprising "initiating a shutdown of an operating system running on a computing device", and "turning off a graphical display of the computing device to conserve power that operates the graphical display when the selectable control is selected and before initiating the shutdown of the operating system running on the computing device."

25 As described above in the response to the rejection of claim 1, Cho does not show or disclose turning off a graphical display before initiating a shutdown of an operating system running on a computing device, and does not

show or disclose conserving power to operate the graphical display, as recited in claim 22. Accordingly, claim 22 along with dependent claims 24 and 26 are allowable over Cho, and Applicant respectfully requests that the §102 rejection be withdrawn.

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Claim 28 recites "turning off a graphical display of the portable computing device to conserve power to operate the graphical display when the operating system selectable control is selected and before initiating the shutdown of the operating system running on the portable computing device."

10 As described above in the response to the rejection of claim 1, Cho does not show or disclose turning off a graphical display before initiating a shutdown of an operating system running on a portable computing device, and does not show or disclose to conserve power to operate the graphical display, as recited in claim 28. Accordingly, claim 28 along with dependent claim 30 is
15 allowable over Cho, and Applicant respectfully requests that the §102 rejection be withdrawn.

35 U.S.C. §103 Claim Rejections

Claims 3-4, 11-12, 19, 23, 25, and 29 are rejected under 35 U.S.C.
20 §103(a) for obviousness over Cho (*Office Action* p.3). Claims 4, 12, and 25 are canceled. Applicant respectfully traverses the rejection.

Independent claims 1, 8, 16, 22, and 28 are allowable over Cho for at least the reasons described above in response to the §102 rejection of the independent claims. Accordingly, claim 3 is allowable by virtue of its
25 dependency upon allowable claim 1, claim 11 is allowable by virtue of its dependency upon allowable claim 8, claim 19 is allowable by virtue of its dependency upon allowable claim 16, claim 23 is allowable by virtue of its

dependency upon allowable claim 22, and claim 29 is allowable by virtue of its dependency upon claim 28.

Accordingly, claims 3, 11, 19, 23, and 29 are allowable over Cho, and Applicant respectfully requests that the §103 rejection be withdrawn.

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Conclusion

Pending claims 1, 3, 5-9, 11, 14-17, 19-24, 26, and 28-47 are in condition for allowance. Applicant respectfully requests reconsideration and issuance of the subject application. If any issues remain that preclude issuance of this application, the Examiner is urged to contact the undersigned attorney before issuing a subsequent Action.

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Respectfully Submitted,

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